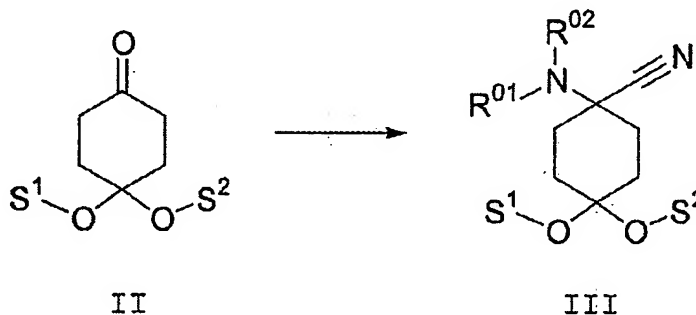


Amendments to the Specification

Please replace paragraph [0069] with the following amended paragraph:

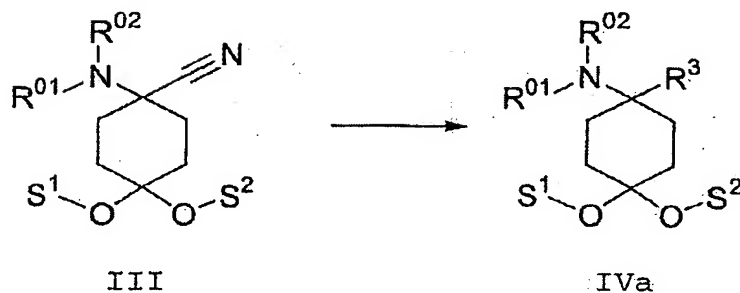
[0069] A method comprising the following steps is particularly suitable:

- a. a cyclohexane-1,4-dione protected by the groups S^1 and S^2 according to formula II is reacted in the presence of a compound of formula $HNR^{01}R^{02}$ with a cyanide, preferably potassium cyanide, to form a protected N-substituted 1-amino-4-oxo-cyclohexanecarbonitrile compound corresponding to formula III;



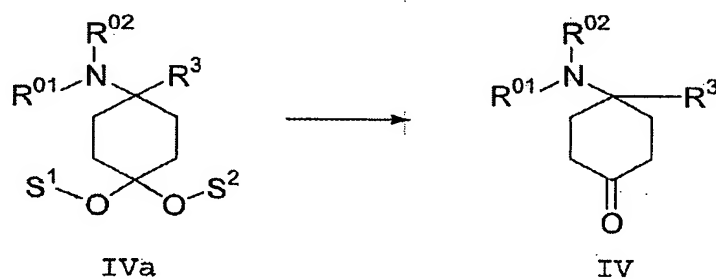
optionally, the compound is then acylated, alkylated or sulfonated in any sequence and optionally repeatedly and/or, in the case of compounds where R^{01} and/or R^{02} and/or $[[R^{06}]] \underline{R^6} = H$ protected by a protective group, a protective group is removed at least once and optionally acylated, alkylated or sulfonated and/or, in the case of a compound where R^{01} and/or R^{02} and/or $[[R^{06}]] \underline{R^6} = H$, a protective group is introduced at least once and optionally acylated, alkylated or sulfonated,

- b. the aminonitrile according to formula III is reacted with organometallic reagents, preferably Grignard or organolithium reagents, having the formula metal- R^3 to form a compound according to formula IVa;



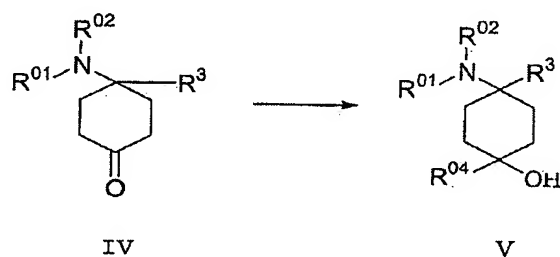
optionally, the compound is then acylated, alkylated or sulfonated in any sequence and optionally repeatedly and/or, in the case of compounds where R^{01} and/or R^{02} and/or $[[R^{06}]] \underline{R^6} = H$ protected by a protective group, a protective group is removed at least once and optionally acylated, alkylated or sulfonated and/or, in the case of a compound where R^{01} and/or R^{02} and/or $[[R^{06}]] \underline{R^6} = H$, a protective group is introduced at least once and optionally acylated, alkylated or sulfonated,

- c. the protective groups S^1 and S^2 are removed according to formula III on the compound according to formula IVa to form a 4-substituted 4-aminocyclohexanone compound according to formula IV;



optionally, the compound is then acylated, alkylated or sulfonated in any sequence and optionally repeatedly and/or, in the case of compounds where R^{01} and/or R^{02} and/or $[[R^{06}]] \underline{R^6} = H$ protected by a protective group, a protective group is removed at least once and optionally acylated, alkylated or sulfonated and/or, in the case of a compound where R^{01} and/or R^{02} and/or $[[R^{06}]] \underline{R^6} = H$, a protective group is introduced at least once and optionally acylated, alkylated or sulfonated,

- d. the 4-substituted 4-aminocyclohexanone compound according to formula IV is reacted with organometallic reagents, preferably Grignard or organolithium reagents, having the formula metal-R⁰⁴ to form a compound according to formula V;



optionally, the compound is then acylated, alkylated or sulfonated in any sequence and optionally repeatedly and/or, in the case of compounds where R⁰¹ and/or R⁰² and/or R⁰⁴ and/or R⁰⁵ and/or [[R⁰⁶]] R⁶ = H protected by a protective group, a protective group is removed at least once and optionally acylated, alkylated or sulfonated and/or, in the case of a compound where R⁰¹ and/or R⁰² and/or R⁰⁴ and/or R⁰⁵ and/or [[R⁰⁶]] R⁶ = H, a protective group is introduced at least once and optionally acylated, alkylated or sulfonated,

wherein R¹, R², R³ and R⁴ have the meaning given in claim 1

and

R⁰¹ and R⁰² independently of one another are selected from H; H provided with a protective group; respectively saturated or unsaturated, branched or unbranched, singly or multiply substituted or unsubstituted C₁₋₈-alkyl or C₃₋₈-cycloalkyl; respectively singly or multiply substituted or unsubstituted aryl or heteroaryl; or respectively singly or multiply substituted or unsubstituted aryl bound via C₁₋₃-alkylene, C₃₋₈-cycloalkyl or heteroaryl;

or the radicals R⁰¹ and R⁰² together form a ring and represent CH₂CH₂OCH₂CH₂, CH₂CH₂NR⁰⁵CH₂CH₂ or (CH₂)₃₋₆,

where R⁰⁵ is selected from H; H provided with a protective group; respectively saturated or unsaturated, branched or unbranched, singly or multiply substituted or unsubstituted C₁₋₈-alkyl or C₃₋₈-cycloalkyl; respectively singly or multiply substituted or unsubstituted aryl or heteroaryl; or respectively singly or multiply substituted or unsubstituted aryl bound via C₁₋₃-alkylene, C₃₋₈-cycloalkyl or heteroaryl;

R⁰⁴ is selected from H, H provided with a protective group; respectively unsubstituted or singly or multiply substituted C₃₋₈-cycloalkyl, aryl or heteroaryl; -CHR⁶R⁷, -CHR⁶-CH₂R⁷, -CHR⁶-CH₂-CH₂R⁷, -CHR⁶-CH₂-CH₂-CH₂R⁷, -C(Y)R⁷, -C(Y)-CH₂R⁷, -C(Y)-CH₂-CH₂R⁷ or -C(Y)-CH₂-CH₂-CH₂R⁷; or -R⁸-L-R⁹

where Y = O, S or H₂,

where R⁶ is selected from

H, saturated or unsaturated, branched or unbranched, singly or multiply substituted or unsubstituted C₁₋₇-alkyl;

and where R⁷ is selected from

H; respectively unsubstituted or singly or multiply substituted C₃₋₈-cycloalkyl, aryl or heteroaryl,

where R⁸ is selected from

respectively unsubstituted or singly or multiply substituted aryl or heteroaryl,

where L is selected from

-C(O)-NH-, -NH-C(O)-, -C(O)-O-, -O-C(O)-, -O-, -S- or -S(O)₂-

where R⁹ is selected from

respectively unsubstituted or singly or multiply substituted aryl or heteroaryl,

and S¹ and S² independently of one another are selected from protective groups or together represent a protective group, preferably monoacetal.